

HIGH-STRENGTH, HYDROPHILIC, POROUS POLY(VINYLDENE FLUORIDE) FILM AND ITS PREPARATION

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Abstract of JP11302438

PROBLEM TO BE SOLVED: To prepare a high-strength, hydrophilic, poly(vinylidene fluoride) film which does not contain any eluted component, has a good hydrophilicity and possesses a high mechanical strength and dimensional stability. SOLUTION: A hydrophobic, porous poly(vinylidene fluoride) film is weted in a solvent, then brought into contact with a solution containing poly(vinyl pyrrolidone) and a polymerization initiator or with a solution wherein polyvinyl pyrrolidone and a polymerization initiator are dissolved in a wettable solvent, and, with the wetted state maintained and under a temperature condition of 120 deg.C or higher, exposed for a time sufficient for the polyvinyl pyrrolidone to crosslink and become water-insoluble, to impart hydrophilicity to and improve the mechanical strength of the film to obtain a high-strength, hydrophilic, porous poly(vinylidene fluoride) film.

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